## PATENT COOPERATION TREATY

# PCT

### INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference	FOR FURTHER		see Form PCT/ISA/220
P60204PCT	ACTION		as, where applicable, item 5 below.
International application No.	International filing date (day/month/	year)	(Earliest) Priority Date (day/month/year)
PCT/EP2004/014008	07/12/2004		19/12/2003
Applicant			
ATOTECH DEUTSCHLAND GMBH			
This International Search Report has been according to Article 18. A copy is being tra	n prepared by this International Searc ansmitted to the International Bureau.	hing Auth	ority and is transmitted to the applicant
This International Search Report consists	of a total of shee	ets.	
X It is also accompanied by	a copy of each prior art document cit	ed in this	report.
	international search was carried out c ess otherwise indicated under this ite		່າງ is of the international application in the
The international this Authority (Rul	search was carried out on the basis ce 23.1(b)).	f a transla	ation of the international application furnished to
b. With regard to any nucleo	otide and/or amino acid sequence o	disclosed i	in the international application, see Box No. I.
2. Certain claims were four	nd unsearchable (See Box II).		
3. Unity of invention is lack	king (see Box III).		
4. With regard to the title,			
X the text is approved as su	bmitted by the applicant.		
the text has been establis	hed by this Authority to read as follow	rs:	
			•
			,
		•	
5. With regard to the abstract,	to the the New College		
the text is approved as su	* * * * * * * * * * * * * * * * * * * *	e Authorit	y as it appears in Box No. IV. The applicant
X the text has been establis may, within one month fro	om the date of mailing of this internation	onal searc	th report, submit comments to this Authority.
6. With regard to the drawings,			
a. the figure of the drawings to be p	oublished with the abstract is Figure N	lo. <u>11</u>	
X as suggested by t	the applicant.		
as selected by thi	s Authority, because the applicant fai	led to sug	gest a figure.
as selected by thi	s Authority, because this figure better	characte	rizes the invention.
b none of the figures is to b	e published with the abstract.		

International application No.

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PCT/EP2004/014008

Box No. IV Text of the abstract (Continuation of item 5 of the first sheet)

The present invention relates to treatment units for the wet-chemical or electrolytic treatment of flat workpieces 1 , such as metal foils, printed circuit foils or printed circuit boards, in which the workpieces are transported on a conveying path by means of conveying members 6. The treatment unit comprises carrier elements with recesses , said carrier elements being oriented to be parallel to the conveying path, and at least one module system for carrying the conveying members that consist of insertion elements 14, 26, preferably arranged in pairs, the at least one module system being configured such that it registers with and is preferably slidable into the recesses of the carrier elements. The treatment unit is preferably utilized in horizontal conveyorized lines.

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International Application No PCT/EP2004/014008

a. classification of subject matter C25D17/28

According to International Patent Classification (IPC) or to both national classification and IPC

#### **B. FIELDS SEARCHED**

Minimum documentation searched (classification system followed by classification symbols) Ć25F C25D H05K B65G C23C

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data

C. DOCUMENTS CONSIDERED TO BE RELE	VANT
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Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Х	EP 0 959 153 A (PROCESS AUTOMATION INTERNATIONAL LIMITED; SHIPLEY COMPANY	1-4,6, 10,20-22
Y	LLC) 24 November 1999 (1999-11-24) paragraph '0015!; figure 1 paragraphs '0039! - '0041!; figures 7a-7d	5,11-19
Y	US 4 607 590 A (PENDER ET AL) 26 August 1986 (1986-08-26) claim 1	5
Y	DE 40 35 932 A1 (HOELLMUELLER, HANS, 7033 HERRENBERG, DE; HANS HOELLMUELLER MASCHINENBA) 14 May 1992 (1992-05-14) column 4, line 20 - column 5, line 17; figures 1-3	11–19
	-/	

X	Further documents are listed in the $$ continuation of box C.
° Spec	cial categories of cited documents :

Patent family members are listed in annex.

- "A" document defining the general state of the art which is not considered to be of particular relevance
- \*E\* earlier document but published on or after the international filing date
- \*L\* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- document referring to an oral disclosure, use, exhibition or other means
- document published prior to the international filing date but later than the priority date claimed
- \*T\* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- "&" document member of the same patent family

Date of mailing of the international search report

Date of the actual completion of the international search

24/11/2005

### 16 November 2005

Name and mailing address of the ISA European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016

# Authorized officer

Desbois, V

### INTERNATIONAL SEARCH REPORT

International Application No PCT/EP2004/014008

	ation) DOCUMENTS CONSIDERED TO BE RELEVANT	15
Calegory °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	DE 102 10 538 A1 (ATOTECH DEUTSCHLAND GMBH) 25 September 2003 (2003-09-25) paragraph '0045! - paragraph '0053!; figure 1	1-4,6,8, 9,20,22
A	US 5 755 935 A (JACKSON ET AL) 26 May 1998 (1998-05-26) column 11, line 51 - column 12, line 12; figures 21,22	5
A	US 5 592 958 A (GARDNER ET AL) 14 January 1997 (1997-01-14) column 4, line 20 - line 31; figure 6 	5

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### INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No
PCT/EP2004/014008

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EP	0959153	A	24-11-1999	CN	1236026	Α	24-11-1999
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